

LAKE: BEAVER P (VLMP LEA)
TOWN: BRIDGTON
COUNTY: CUMBERLAND

MIDAS: 5582
TRUE BASIN: 1
SAMPLE STATION: 1

WHOLE LAKE INFORMATION

MAX. DEPTH: 11 m. (35 ft.)

MEAN DEPTH: 3 m. (11 ft.)

DELORME ATLAS #: 04

USGS QUAD: PLEASANT MOUNTAIN

LEW REGION A: Sebago Lake (Gray)

LEW FISH - MANAGEMENT: Warmwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 28.0 ha. (69.2 a.)

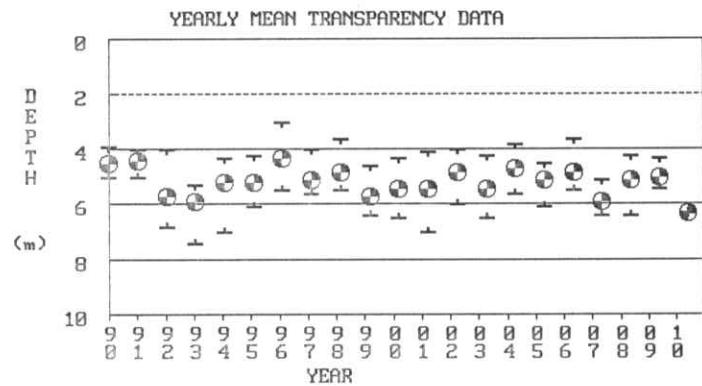
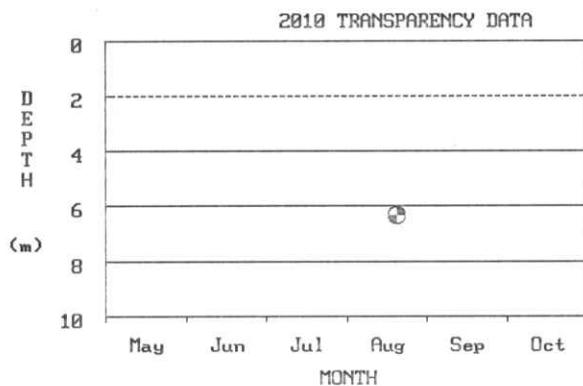
FLUSHING RATE: 3.72 flushes/yr.

VOLUME: 1050480.0 cu. m. (852 ac.-ft.)

DIRECT DRAINAGE AREA: 6.71 sq. km. (2.59 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. BEAVER P has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

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SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS

YEAR	MEAN	MEAN	MEAN	MEAN																
	COLOR	pH	ALK	COND.	TOTAL	PHOS.	MEANS	(ppb)	SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES				
	(SPU)	(mg/l)	(uS/cm)	EPI	SURF	BCT.	PRO.		MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	G	G	SEC	CHL	
2004	28	6.59	9.3	42	10	-	-	14	3.8	4.7	5.6	5	2.9	6.3	10.0	42	-	52	59	
2005	21	6.72	8.9	43	9	-	-	21	4.5	5.1	6.1	5	2.0	5.6	10.6	-	-	47	-	
2006	27	6.74	7.8	41	11	-	-	25	3.6	4.8	5.5	6	2.8	5.4	7.6	45	-	50	55	
2007	16	6.67	7.4	37	8	-	-	15	-	5.1	5.9	6.4	5	1.8	3.4	6.7	36	-	40	43
2008	19	6.50	7.5	41	9	-	-	18	4.2	5.1	6.4	5	2.3	4.8	11.0	39	-	47	52	
2009	25	6.67	10.4	43	10	-	-	15	4.3	5.0	5.4	3	3.4	3.6	3.8	-	-	-	-	
2010	23	6.67	12.5	44	8	-	-	30	-	6.3	6.3	6.3	1	5.0	5.0	5.0	-	-	-	-
SUMMARY:	24	6.69	12.9	48	9	9	23	21	3.0	5.2	7.4	21	1.3	4.8	16.0	39	-	47	51	

LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

WATER QUALITY SUMMARY

BEAVER POND, BRIDGTON

MIDAS: 5582, Sample Station # 1

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include data for bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring data have been collected from Beaver Pond since 1990. During this period, 14 years of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Beaver Pond is considered average based on measures of SDT, total phosphorus (TP), and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Beaver Pond is moderate.

Water Quality Measures: Beaver Pond is a non-colored lake (average color 24 SPU) with an average SDT of 5.1 m (16.8 ft). The range of water column TP for Beaver Pond is 7-11 parts per billion (ppb) with an average of 9 ppb. Chla ranges from 1.3 - 16.0 ppb with an average of 4.8 ppb. Recent dissolved oxygen (DO) profiles show high DO depletion in deep areas of the lake. The potential for phosphorus to leave the bottom sediments and become available to algae in the water column (internal loading) is moderate to high.

Beaver Pond is monitored through the Lakes Environmental Association (LEA) of Bridgton.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.lakesofmaine.org/> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

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